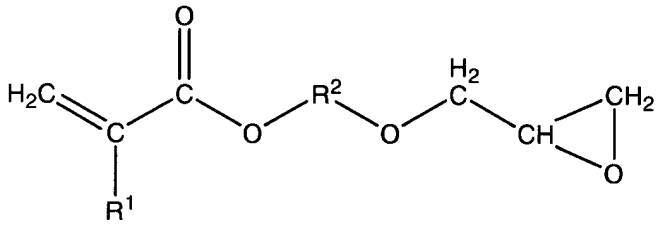
English Translation of the Amendments to the Claims under PCT Article 19 (35 U.S.C.371(c)(2)).

Claims

1. (Amended) A photosensitive resin composition characterized by comprising

a poly((meth)acrylic acid)-based water-soluble photosensitive resin (A) having an acid value of 170 mgKOH/g or more on a solid basis;

the resin (A) being formed of a ((meth)acrylic acid)-based polymer in which a compound represented by formula (1):



(1)

(wherein $R^1$ represents H or Me; and $R^2$ represents a liner or branched C2-C10 alkylene group) has been added to portions of the carboxylic groups,

a photopolymerization initiator (B); and

water (C).

2. A photosensitive resin composition according to claim 1, wherein the carboxyl groups of the ((meth)acrylic acid)-based polymer to which the compound represented by formula (1) has not been added are partially or entirely neutralized with an alkali.

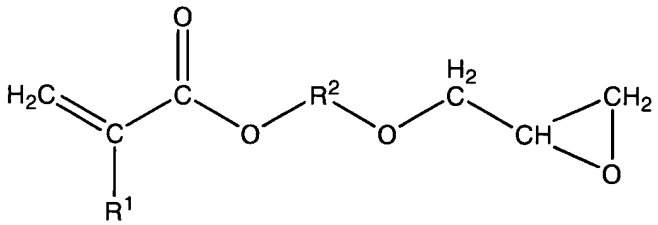
3. (Amended) A method for forming a hydrogel

characterized by comprising causing a photosensitive resin composition as recited in claim 1 or 2 to photopolymerize.

4. (Added) A hydrogel characterized by being produced by causing a photosensitive resin composition to photopolymerize, the photosensitive resin composition comprising

a poly((meth)acrylic acid)-based water-soluble photosensitive resin (A) having an acid value of 170 mgKOH/g or more on a solid basis;

the resin (A) being formed of a ((meth)acrylic acid)-based polymer in which a compound represented by formula (1):



(1)

(wherein $R^1$ represents H or Me; and $R^2$ represents a liner or branched C2-C10 alkylene group) has been added to portions of the carboxylic groups,

a photopolymerization initiator (B); and

water (C).

5. (Added) A hydrogel according to claim 4, wherein the carboxyl groups of the ((meth)acrylic acid)-based polymer to which the compound represented by formula (1) has not been added are partially or entirely neutralized with an alkali.